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CI

e GAG Sheet 1 of 10 FIGs. 1&2A

FIG. 1

TTCACACAGGAAACAGAATTCCCGGGGATCCGTCGACCTGCAGCCAAGCTT pKK223-3

HindIII

SEQ ID NO.:285

-- AAGCTT TTCACA<u>TAAGGAGGAAAAAAccatgg</u>GATCCG--pKK223-3N

Ncol SEQ ID NO.:286

CCG Д GCT AAT Z ď CCG AAC Z Д AAT z GCT ď CCG AAC z Д A AIT AAC GCT AAT CCG AAC GCT AAT z ď z ρ, z Cloning Step 1 ď Z

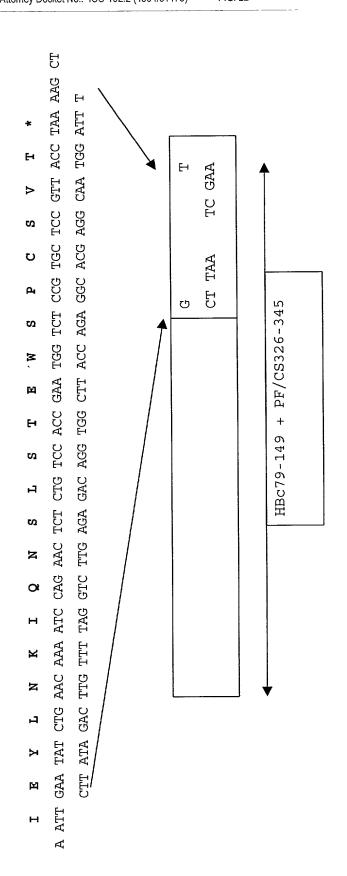
FIG. 2A

 \mathcal{O} GGC HBc 79-149 TTATTA GGC TTG CGA TTA GGC TTG CGA GAG U (NANP) 4 Γ + TAA 1-78 CIr HBC CGA 1-78 $_{
m IIG}$ GGC HBCTTACGA TTG

FIG. 2B

(7

Cloning Step



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FIG. 2C

Cloning Step 3

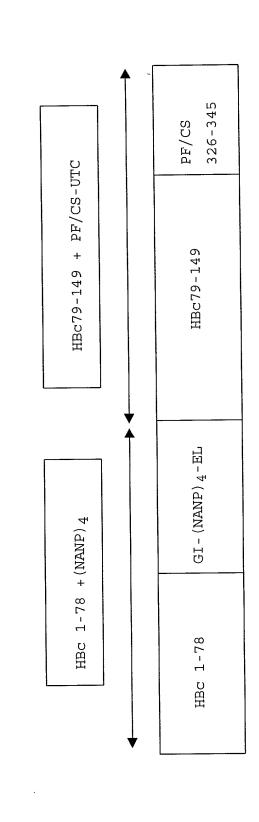


FIG. 3

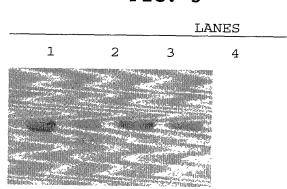


FIG. 4

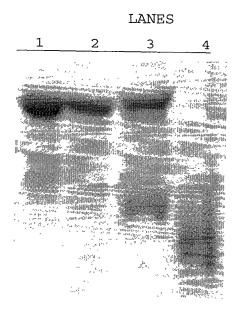
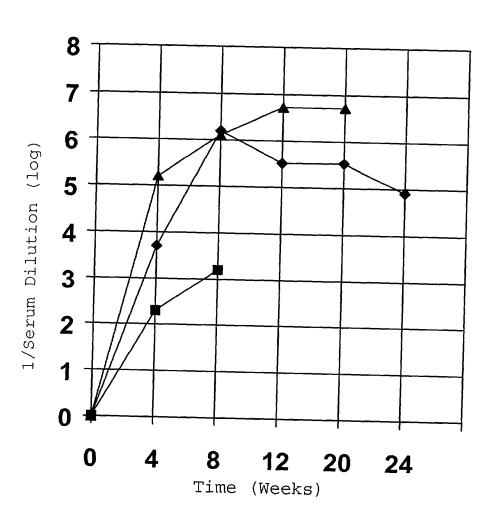


FIG. 5



Sheet 6 of 10 FIG. 6

FIG. 6

Scheme 1

Sheet 7 of 10 FIG. 7A

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| | 4 | | | |
|-----------------|------------|---|------------|------------|
| HBc AYW | mdidpykefg | mdidpykefg atvellsflp sdffpsvrdl ldtasalyre | sdffpsvrdl | ldtasalyre |
| HBc ADW | mdidpykefg | mdidpykefg atvellsflp sdffpsvrdl ldtasalyre | sdffpsvrdl | ldtasalyre |
| HBc ADW2 | mdidpykefg | mdidpykefg atvellsflp sdffpsvrdl ldtasalyre | sdffpsvrdl | ldtasalyre |
| HBc ADYW | mdidpykefg | mdidpykefg atvellsflp sdffpsvrdl ldtaaalyrd | sdffpsvrdl | ldtaaalyrd |
| Woodchuck | mdidpykefg | mdidpykefg ssyqllnflp ldffpdlnal vdtatalyee | ldffpdlnal | vdtatalyee |
| Ground Squirrel | mdidpykefg | mdidpykefg ssyqllnflp ldffpdlnal vdtaaalyee | ldffpdlnal | vdtaaalyee |

| | ļ† | | | | |
|-----------------|---|------------|---|---|--|
| HBc AYW | alespehcsp | hhtalrqail | alespehcsp hhtalrqail cwgelmtlat wvgvnledpa | wvgvnledpa | |
| HBc ADW | alespehcsp | hhtalrqail | cwgelmtlat | alespehcsp hhtalrqail cwgelmtlat wvgnnlqdpa | |
| HBc ADW2 | alespehcsp | hhtalrqail | cwgelmtlat | alespehcsp hhtalrqail cwgelmtlat wvgnnledpa | |
| HBc ADYW | alespehcsp | hhtalrqail | cwgdlmtlat | alespehcsp hhtalrqail cwgdlmtlat wvgtnledpa | |
| Woodchuck | eltgrehcsp | hhtairgalv | cwdeltklia | eltgrehcsp hhtairgalv cwdeltklia wmssnitseg | |
| Ground Squirrel | eltgrehcsp hhtairgalv cweeltrlit wmsentteev | hhtairdalv | cweeltrlit | wmsentteev | |

FIG. 7B

| | <u>⊣</u> ∞ | | | |
|-----------------|------------|--|---|---|
| HRC AVW | srdlvvsyvn | tnmglkfrql | srdlvvsyvn tnmglkfrgl lwfhiscltf gretvieylv | gretvieylv |
| MUK San | srdlvvnvn | tnmglkirgl | lwfhiscltf | ardlyvnyvn tnmglkirgl lwfhiscltf gretvleylv |
| HUC AUN | ard I www. | thvalkiral | lwfhiscltf | sydlywwyn thyalkiral lwfhiscltf gretvleylv |
| HBC ADWA | | + 21/2 1/4 | srurviny in chiralteral lwfhiscltf gretvleylv | gretvlevlv |
| HBc ADYW | STOTANAIN | | 1 | 32000 Z |
| Woodchuck | vrtiivnhvn | dtwglkvrqs | vrtijvnhvn dtwglkvrds lwiniscitl gqiicvqcilv | 94110 461 1 v |
| Ground Squirrel | rriivdhvnn | twglkvrgtl | rrijvdhvnn twglkvrqtl winiscitig quicvyellvs | dirvgerra |

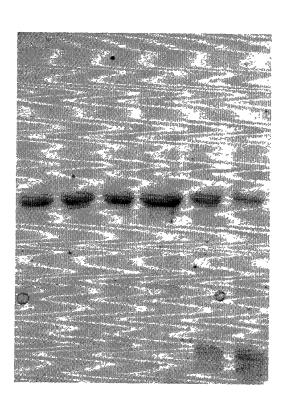
| - | sfgvwirtpp ayrppnapil stlpettvvr rrgrsprrrt | sfgvwirtpp ayrppnapil stlpettvvr rrdrgrsprr | sfqvwirtpp ayrppnapil stlpettvvr rrdrgrsprr | sfqvwirtpp ayrppnapil stlpettvvr rrgrsprrrt | sfqvwirtpa pyrppnapil stlpehtvir rrggarasrs | forwirtpap vropnapils tlpehtvirr rggsraarsp |
|-------|---|---|---|---|---|---|
| | ayrppnap | ayrppnap | ayrppnap | ayrppnap | pyrppnap | vrppnapi |
| T 7 T | sfgvwirtpp | sfgvwirtpp | sfqvwirtpp | sfqvwirtpp | sfqvwirtpa | favwirtpap |
| , T | HBC AYW | HBC ADW | HBC ADW2 | HBC ADYW | Moodchuck | באיל ווהא במנוטאט |

| | sdc | resdc | resqc | sqc | sdc | dsbasnc |
|-----|-----------------------|------------|------------|--------------|------------|-------------------------------|
| | | dsbrrrrsds | dsbrrrrsds | prrrrsqsre | rrsqsprrrr | rsdsprrrrs |
| 161 | psprrrrsds prrrrsdsre | rtpsprrrrs | rtpsprrrps | psprrrrsds] | prrrtpsprr | rrrtpsprrr rsqsprrrrs qspasnc |
| Ť | HBc AYW | HBc ADW | HBc ADW2 | HBc ADYW | Woodchuck | Ground Squirrel |

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FIG. 8

| <u>V12</u> | .Pf1 | | <u>V12.</u> | Pf1(| C17A) | <u>C150</u> |
|------------|------|-----|-------------|------|-------|-------------|
| | | DAY | s | | | |
| 0 | 7 | 14 | 0 | 7 | 14 | |



Sheet 10 of 10 FIG. 9

FIG. 9

1 2 3 4 5

